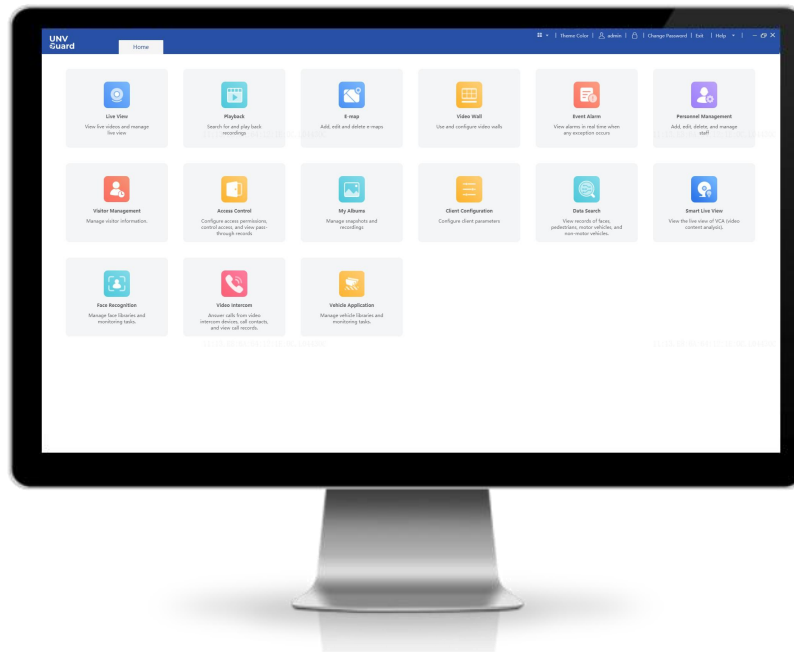# UNV Guard Integrated Security Management Platform Software

Overview

UNV Guard is an integrated security management platform that integrates multiple functions such as video surveillance, personnel management, access control management, and data search. The software adopts distributed deployment, is easy to use, and supports various devices including encoding devices, decoders, access control devices, video intercom devices, etc., to provide safe, smart, and visualized services for schools, communities, supermarket, etc.

Features

Distributed deployment: Distributed client-server deployment allows for unified management but decentralized operations.

Superior management: Supports connection and management of IPCs, NVRs, smart devices, face detection terminals, access controllers, entrance and exit ANPR cameras, cloud devices, decoders, storage servers, third-party access/alarm devices, etc.

Efficient device configuration: Supports adding devices on the LAN by auto search or IP search.

Rich features: Provides basic functions such as live view, playback, video wall, e-map, two-way audio, event&alarm, and O&M; provides smart functions such as personnel management, visitor management, face detection, access control management, video intercom, attendance management, patrol management, and data search.

Easy access: Provides PC client (C/S, B/S) and mobile client (iOS, Android).

Safety & reliability: Supports HTTPS connection.

Specifications

Parameters			Description
Performance	Hardware	CPU	Intel Core i7-12700 Intel Xeno E-2378
		Memory	32GB or more
	Resource Management	Encoding device (IPC, NVR)	2,000
		Ordinary video channel	10,000
		Intelligent analysis terminal/server (Smart Box edge algorithm mode)	64
		Intelligent video channel (face detection, LPR, multi-target detection, people counting)	2,000
		Decoding device	32
		Storage server/device	64
		Access control device (including access controllers)	256
		Access control channel/door	1,000
		Video intercom (door station)	256
		Video intercom (indoor station)	5,000
		Radar	32
		Cloud device (EZCloud)	256
		Third-party alarm device	2,000
		Alarm channel/point	5,000
	Organization Management	Organization	3,000
		Organization level	26
	Event&Alarm	Alarm plan	3,000
		Alarm-linkage actions in alarm plan	1,000
		Receive events/alarms without images per second	400
		Receive events/alarms with images per second	40
		Push events/alarms to client per second	100 events/alarms
		Push events/alarms to clients	100 clients per second

Parameters			Description
	Recording Storage	Recording schedule	20,000
	E-map	Level	4
		Total hot zones	128
		Total hot spots	512
		Hot zones per map	64
		Hot spots per map	128
		Map image resolution	8190x8190
		Single map image size	100MB
		Total map images	128
		Total map image size	2GB
		GIS offline map package size	512MB
	User&Role	Role	500
		User	3,000
		Roles per user	32
		Concurrent online users	100
	Data Storage	Alarm log	20,000,000
		Access control event	20,000,000
		People counting	20,000,000
		Visitor record	20,000,000
		Attendance record	20,000,000
		Vehicle pass-thru record	20,000,000
		Call record	20,000,000
		Operation log retention	6 months
		Patrol record	2,000,000
	Personnel	Person	100,000
		Department	3,000
		Department level	10
		Persons per department	500
		Face image	100,000
		Face image requirements	10KB-5MB; JPG only
		Face image storage space	30GB
	Access Control	Access control person	100,000
		Card	100,000
		Permission group	500
		Time template	32
		Holidays per time template	16
		Export access records at	200,000

Parameters			Description
		a time	
	Visitor	Visitor	100,000
		Visitor pre-registration record	20,000,000
	Community Management	Community	20
		Room	5,000
		Residents per room	10
	Attendance Management	Attendance person	10,000
		Time period	128
		Shift	128
		Holiday	32
	Face Detection	Face	100,000
		Face library	64
		Monitoring task	64
	Vehicle&Parking	Vehicle	50,000
		Vehicle library	64
		Monitoring task	32
	People Counting	Counting group	30
		Channels per counting group	20
	Video Wall	Video wall	32
	Patrol Management	Patrol point	5,000
		Patrol route	1,000
		Patrol points per route	200
		Patrol schedule	500
		Patrollers per schedule	1,000
	Stream Media	Receiving bandwidth	300x2Mbps
		Forwarding bandwidth	300x2Mbps
	PTZ	PTZ patrol route	16
		Presets per patrol route	32
	Live view	View (group display)	200
		Views per view sequence	200
		Cameras per group sequence	500
		Sequence resources	200
		Cameras per sequence resource	500
	System	Replicas in primary/replica mode	32
Basic	Device Management		Supports IPC, NVR, SmartBox, decoder, access control, video intercom device, entrance & exit device, patrol device,

Parameters		Description
Function		third-party alarm device, etc.
		View detailed device information such as device name, IP address, device model, and device status.
		Supports redirecting to device's Web interface for more operations.
		Supports standard protocols such as Uniview private protocol and ONVIF protocol.
		Supports various third-party protocols for alarm, access control, patrol, etc.
		Device connection supports IP+Port, DDNS+Port, EZCloud, etc.
	Organization Management	Add, edit, delete, and search organizations.
		Local domain and external domain: Total up to 26 levels of organizations are allowed.
	License Management	Supports license activation.
		Export host file; import and view license information.
	User Management	Add, edit, delete, and search user information.
		Each user can have multiple roles.
		Retrieve password with email address.
		Admin can reset passwords of other users.
		Assign/withdraw roles.
	Role Management	Add, edit, delete, and search roles.
		Supports configuring function permissions for roles, allowing different roles to access specified functions and menus only.
		Supports configuring resource permissions for roles, allowing different roles to access specified resource information only.
	Alarm Subscription	Supports subscribing to alarm types by user.
	Alarm Service	Supports receiving real-time smart event information (motor vehicle/non-motor vehicle/pedestrian detection event).
		Supports searching motor vehicle, non-motor vehicle, and face records.
		Supports searching perimeter alarm events.
		Supports event alarm and device alarm.
		Supports alarm subscription by user, organization, domain, and resource.
		Supports alarm push.
		Supports real-time pop-up alarm window.
		Supports searching history alarms and alarm acknowledgment.
		Supports searching alarm records by alarm time, alarm device, alarm type, alarm level, handling result, user handling the alarm, and alarm description.
		Supports exporting alarm records.
		Supports uploading alarm sound files for different alarm types and playing the corresponding alarm sound when an alarm occurs.
	Alarm Linkage Actions	Real-time pop-up alarm window.
		PTZ.

Parameters			Description
			Play live video on video wall.
			Play recorded video of a camera.
			Record video.
			Backup video
			Output alarm.
			Send email to specified users.
			Send text (display a pop-up message for specified users).
			Play audio (broadcast alarm info to specified users).
	E-map		Supports image map and GIS map.
			View live videos, recordings, snapshots, and alarm information of alarm channel. Filter alarms by alarm level and alarm type.
			View channel status on map.
			Search and locate device on map.
			Supports statistics of alarm data for the day.
			Supports reverse control to alarm channel (based on third-party alarm device capacity).
	Dual-Server Hot Standby (for primary server)		Switch the working mode of the primary/secondary server.
			Detect service status.
			Failover for all services.
	Community Management		Add, edit, delete, and search communities, buildings, units, and rooms.
			Supports associating residents with rooms based on their occupancy status (owner/tenant).
	Personnel Management	Department management	Add, edit, delete, and search departments.
			Supports importing and exporting departments.
		Personnel management	Supports personnel information enrollment, including the basic person information, card information, and room information.
			Supports customizing attributes for personnel.
		Card management	Supports card enrollment and withdrawal.
	System Management	Time	Supports holiday management.
		Basic configuration	Supports switching temperature unit (Celsius/Fahrenheit).
		Storage	Supports configuring storage path for event snapshots.
	System Maintenance	Service status	View server operation status.
		Restart system/service	Supports restarting system/service manually.
		Image backup	Supports image backup/restoration, supports face images, vehicle images.
		Diagnostic info	Supports exporting service operation logs as a package file.
		Configuration &data migration	Supports importing and exporting database file.
Video Application	Live View		Supports view sequence, group sequence, camera sequence, snapshot, digital zoom, volume control, video recording, etc.
			Supports PTZ control, PTZ preset configuration, PTZ patrol

		plan, priority control.
		View smart live view (people counting, LPR, multi-target detection).
	Playback	Supports playback of recordings saved on NVR or IPC's SD card.
		Search recordings by local recording, device recording (not including cloud storage), backup recording, channel, and time period.
		Supports various playback speeds: 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x (based on NVR stream output performance).
		Supports various rewind speeds: 1x, 2x, 4x, 8x, 16x.
		Supports snapshot, digital zoom, audio control, 30s rewind/forward, playback by frame, and synchronous playback.
		Supports recording download to the client computer.
	Audio	Only one two-way audio or broadcast is allowed per channel simultaneously.
		Two-way audio: The client has two-way audio with a channel.
		Broadcast: The client plays audio to multiple audio channels at the same time.
		Two-way audio supports G.711a and G.711u. Supports playing and downloading dual-channel audio.
	Video Wall	Supports creating DC video wall and multi-DC video wall.
		Supports playing live video and camera sequence on video wall.
		Add, edit, delete, and search video walls; editable video wall information includes name, size, and decoding channel binding/unbinding.
		Supports 1/3/4/6/7/8/9/10/13/16 window layout.
		Supports live view and playback on video wall.
		Supporting saving video wall settings as a scene for quick recall.
		Supports window roaming, overlay, magnify/restore, split, always display at top or bottom, etc.
		Supports virtual LED.
		Supports small pitch LED.
		Supports network keyboard control.
		Supports TCP and UDP.
Access Control Management	Permission Management	Add, edit, delete, and search access control permission groups.
		Supports permission authorization by person, access control device, department, and building.
		Add, edit, delete, and search schedule templates.
		Supports holiday template configuration.
		Supports duress code configuration.
		View real-time live videos and people pass-thru information of access control device.
		Supports opening/closing door remotely.
	Access Management	Supports opening door by scanning face, swiping card.

Parameters		Description
		Supports image correction; feature extraction and syncing.
	Record Search	Supports retrieving people access records from device side.
		View and export people access records.
Visitor Management	Visitor Management	Supports visitor registration and sign-out.
		Supports face and license plate enrollment.
		Supports configuring visitor permission group.
	Visitor Records	View and export visitor records.
Video Intercom	Configuration Management	Supported device types: door station, indoor station
		Supports linking device with room information, binding indoor station with room, and remotely controlling door station to open door.
		Add, edit, delete, and search call recipients.
		Supports contact management and calls to indoor station via contact.
	Call Management	Door station and indoor station can call management platform; management platform can call indoor station.
		View call and answer records.
	Alarm Connection	Supports connection of alarms from indoor station and door station.
Attendance Management	Attendance Configuration	Attendance regulation: Set automatic calculation time (default is 5:00 a.m.).
		Staff schedule: Supports time period configuration, shift management, and schedule management (schedule shifts to person/department).
		Attendance holiday: Supports holiday configuration.
	Attendance Handling	Supports leave/business handling.
		Supports re-sign in&out; view re-sign in&out records.
	Attendance Statistics	Original data: View and export original attendance data.
		Attendance details: Search and export detailed attendance data; supports attendance calculation.
		Attendance summary: Summarize and export attendance data.
	Attendance Data	Supports syncing attendance data to third-party databases (MySQL, PostgreSQL, and SQLServer).
Park Vehicle Service	Vehicle Management	Add, edit, delete, and search vehicle libraries and vehicle information.
	Vehicle Monitoring	Supports monitoring by vehicle match/not match alarm.
		Add, edit, delete, and search monitoring tasks.
	Real-time Monitoring	Supports smart live view (from cameras).
		Supports opening gate remotely and displaying vehicle pass-thru information and match/not match alarm information based on the monitoring task.
People Management	Face Management	Add, edit, delete, and search face libraries and personnel information. Supports syncing face library to device.
	Face Monitoring	Supports monitoring by face match/not match alarm via private protocol.

Parameters			Description
People Counting	Real-time Monitoring		Supports smart live view (from face cameras) and displaying people pass-thru information and match/not match alarm information based on the monitoring task.
	Record Search		Search records by attribute and event type.
			Search face records by image (with NVR).
			Supports displaying face trajectory on e-map and video playback.
			Search alarm records by monitoring type, time, etc.
	Real-time Statistics		Supports people flow counting area and crowd density monitoring area.
			View live videos of people counting cameras; displays statistical information.
			People flow counting area supports displaying the number of people entered/left/allowed/staying and access status.
			Crowd density monitoring area supports displaying the number of people allowed/staying and area status.
	Report & Statistics		Supports displaying people flow counting statistics (by month/day/hour/minute) in diagram or report.
Patrol Management	Patrol Point Type		Supports patrol with face detection terminals.
	Patrol Route		Add, edit, delete, and search patrol routes.
	Patrol Method		Supports 6 patrol methods: All points random, first point fixed, first and last points fixed, all points ordered (no interval restriction), all points ordered (same interval), and all points ordered (customized interval).
	Patrol Schedule		Add, edit, delete, and search patrol schedules. Supports configuration of schedule details, holidays, and patrollers.
	Patrol Records		Search patrol records by time, patrol point, etc.
Alarm	Alarm System		Add, edit, delete, and search partitions and zones.
			Supports arming/disarming and bypass/unbypass.
O&M	Device Diagnostic Info		Support device diagnosis and exporting diagnostic information.
Cloud & Edge Collaboration	Basic Function		View resources, live videos, and recordings of edge channels and receive alarms from them.
	Cloud & Edge Service		Supports remote enrollment and review of visitors.
			Supports access control permission management.
			Supports cloud-based attendance management.
	Data Sync		Supports sync of basic organization data.
			Supports sync of basic personnel and department data.
			Supports sync of basic device and channel data.
Installation Requirement	Server	Windows server	Windows Server 2012 64-bit or higher
	Client	Desktop client	Windows 7 SP1 64-bit or higher
		Web client	Google Chrome60 or higher FireFox60 or higher

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